

# What You Need to Know about FirstNet in California

March 2, 2015

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## Topics

- FirstNet Vision
- Applications
- Governance
- Road to FirstNet
- Call to Action

- What is it?
- How can I use it?
- How will decisions be made?
- When will this happen?
- What do I need to do?



## **FirstNet Vision**



## **VISION:**

To provide emergency responders with the first nationwide, high-speed, wireless broadband network dedicated to public safety

FirstNet will be a force multiplier, enabling collaboration to help save more lives, solve more crimes and keep communities safer.

Jeffrey D. Johnson, Chief (Ret.)
Chief Executive Officer — Western Fire Chiefs Association
FirstNet Board Member



## Why a Dedicated Network?





## Why Broadband? - Field Data Information Explosion

70 Percent of U.S. Police Departments Audio, e.g., ShotSpotter EYEWIT Use License Plate Readers

Video cameras

- Text to 9-1-1
- + more...

License plate readers San Jose police can tap into volunteer residents' cameras under newly-Crime reporting apps approved program

Bu Mike Rosenbera

OSTED: 09/09/2014 02:47:06 PM PDT

**Antioch Police Announce Launch** of Free Smart Phone Application

Posted: 7:30 p.m. Friday, May 2, 2014

### More Bay Area officers sporting body camera





officer body cameras

By Paul Chambe KTVU.com

WALNUT CREE growing trend fo departments thro Area, Walnut Cre Rosa law enforc are the latest to body-worn came

"Keeps people o behavior. It's a q tool for the distri office for prosec

By EastCounty Today • September 10, 2014 • Print-Friendly



Crime Push app helps report crime



During Tuesday nights

Department announced and demonstrated a free Smart Phone Application. The application is available for free download on iTunes and GooglePlay where people can stay connected wherever they are with mobile access wherever they are

## FirstNet will Offer Public Safety Users:



#### Communication

- Video
- Voice (non-mission critical)
- Messaging
- SMS/Text
- Data (Internet)



### **Applications**

- CAD, RMS, NLETS
- FirstNet applications (e.g., AVL)
- Syndicated applications
- Currently used Agency applications

### Services

- Records management
- Data storage
- Audio storage
- Database inquiries

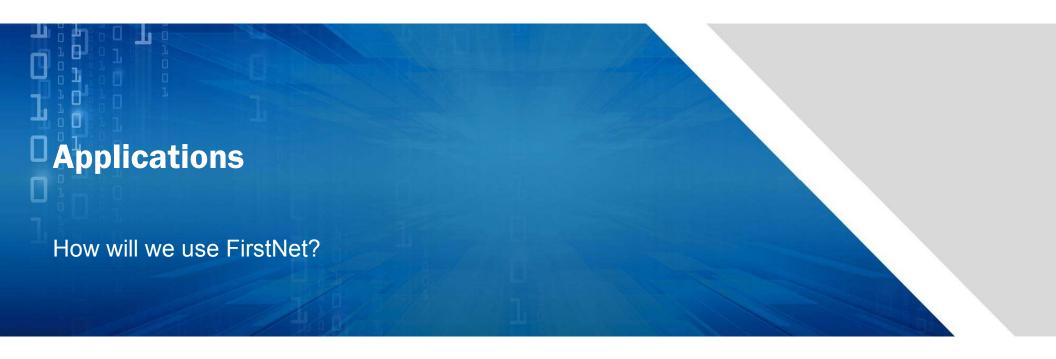


## Capabilities

- Network monitoring and status
- Integrated solution and services
- Priority
- Hardened and secure
- Provisioning









## FirstNet will enable Public Safety Applications

- Live one- and two-way video in vehicles or via handhelds
- Large file transfer/download (floor plans, high res photos, heat maps, evacuation plans)
- Dynamic mapping, weather, traffic
- Multimedia Command & Control
- Situational Awareness (incl. asset, vehicle, personnel tracking)
- Next Generation (NG) 9-1-1 texts, photos, data
- Remote control of robotic devices
- Database queries
- Field reporting





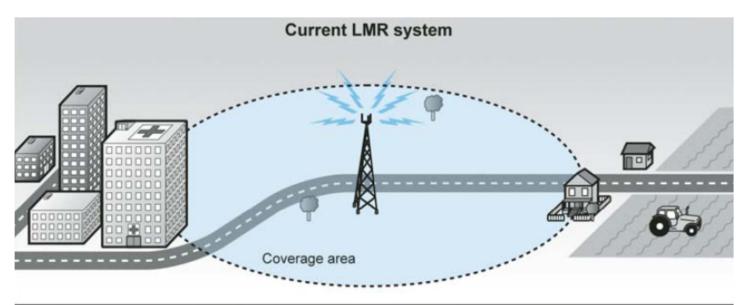


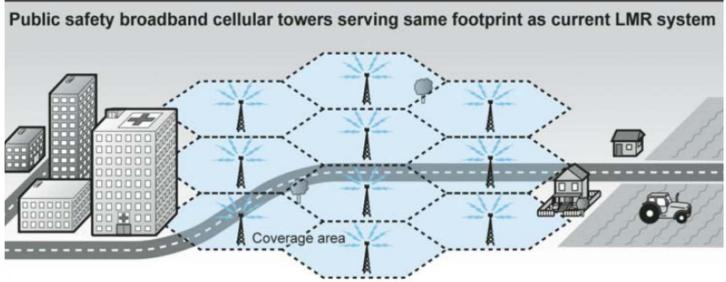






## **Public Safety's Coverage Challenge**







## **California Fire Danger**

## **Fire Threat Map**

Extreme

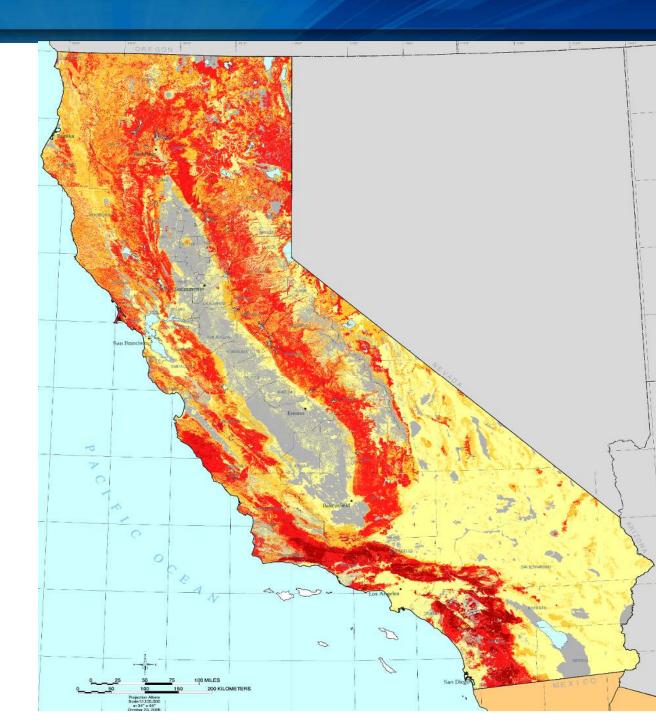
Very High

High

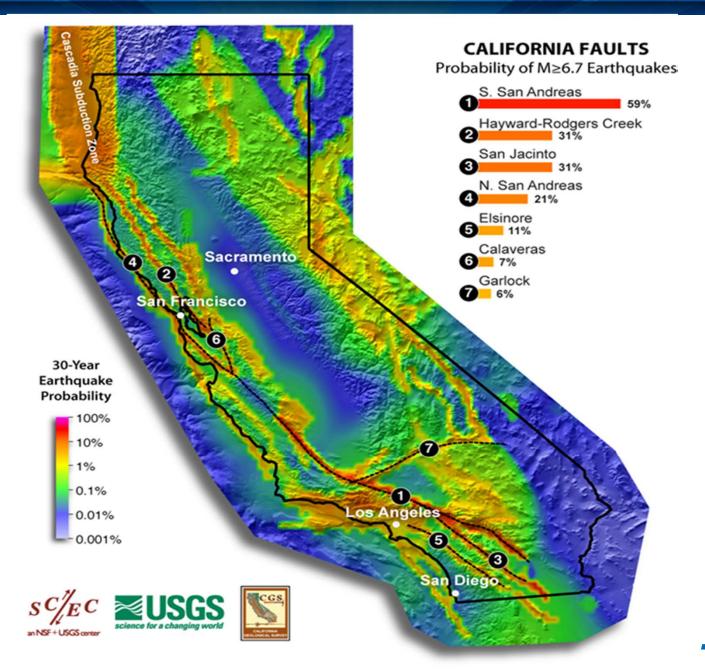
Moderate

Non-fuel

\_\_\_\_\_Non-mapped



## **California Earthquake Faults**





## **Adjusting Coverage for Public Safety Needs**

#### Agencies

- EMS Departments
- Federal
- Military
- Emergency Management
- Law Enforcement
- Fire Departments

#### **Facilities**

- Major State Government Building
- Court Houses



Corrections



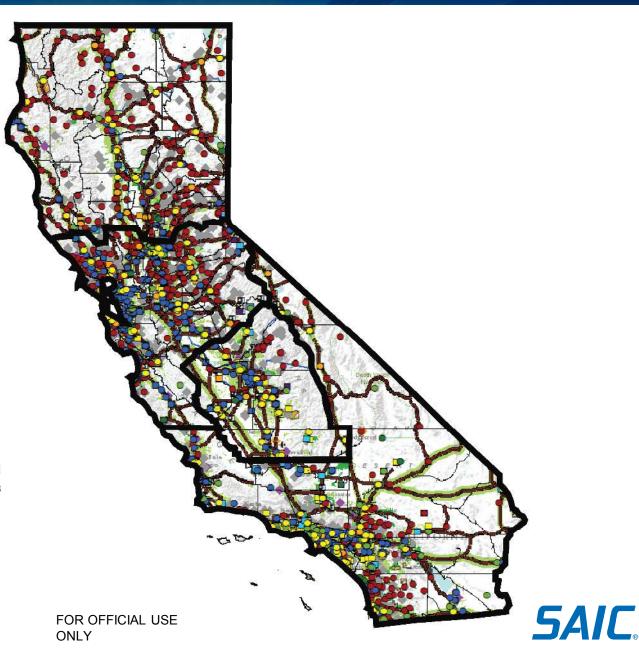
- + Airports
- Local Emergency Operations Centers
- State Emergency Operation Centers
- Urgent Care Facilities
- Hospitals
- PSAP
- Schools
- Ports
- Amtrak Stations
- Air National Guard (ANG) Sites

Army National Guard (ARNG) Installat

Canada and Mexico Border Crossings

#### Critical Infrastructure

- Manufacturing
  - Haz ardous Materials Routes
- Energy
- ♠ Nuclear Plants
- Dams
- Public Venues

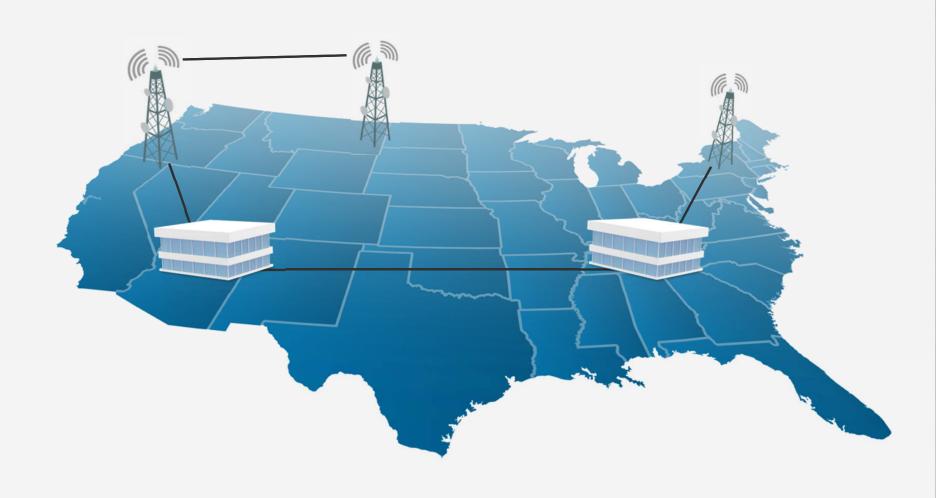




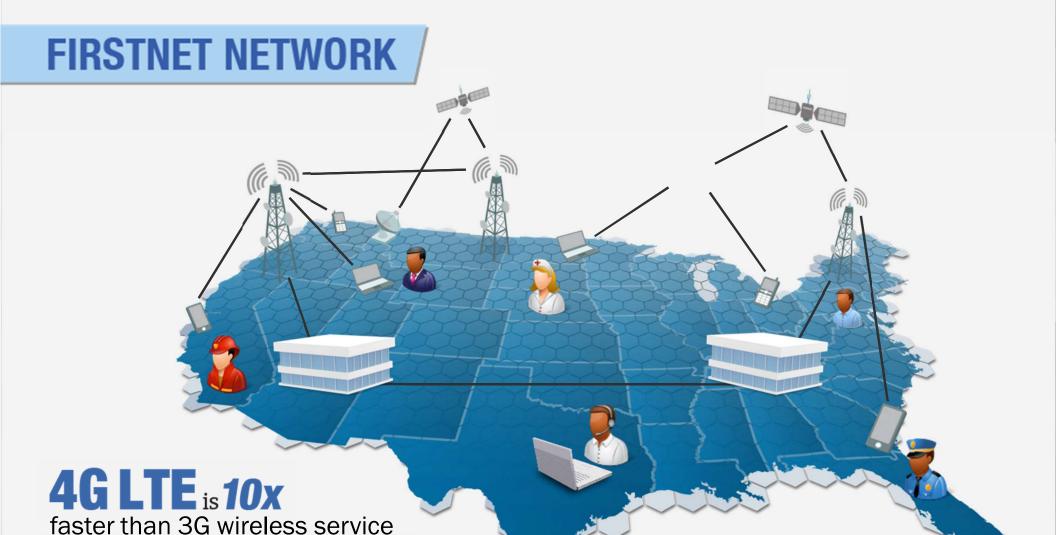


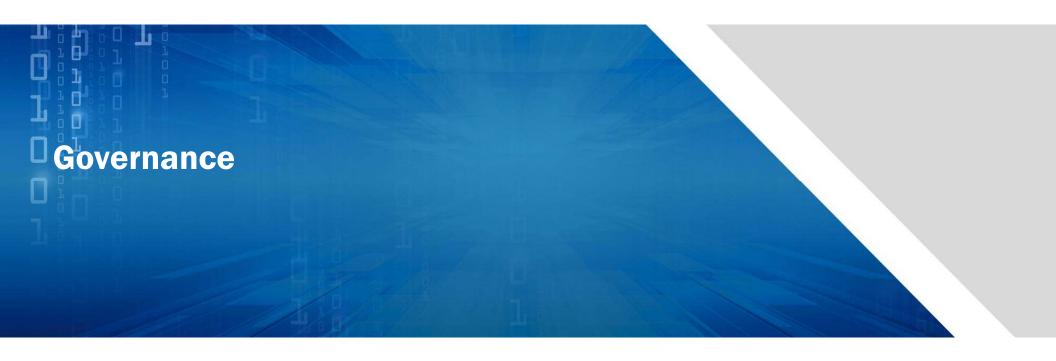
# FirstNet by the Numbers

## **FIRSTNET NETWORK**



# FirstNet by the Numbers







## **Governance - Federal Level**

- Federal Communications Commission
  - 700 MHz public safety spectrum frequency holder
- National Telecommunications and Information Administration (NTIA)
  - Part of the Department of Commerce
  - Selected FirstNet Board of Directors
- First Responder Network Authority (FirstNet)
  - Managing entity for the public safety spectrum
  - Governing authority for the Nationwide Public Safety Network (NPSBN)



## **Governance - State Level**

- State of California Governor's Office
  - Per the Act, designates single officer or governmental body to coordinate with FirstNet
  - Makes the Opt-In/Opt-Out decision
- California First Responder Network Board (CalFRN)
  - State's governing body for FirstNet
  - Engages key public safety stakeholders across California
  - Works with Cal OES
- California Office of Emergency Services (Cal OES)
  - Designated state point of contact (SPOC) to coordinate with FirstNet
  - Chairs the CalFRN Board
  - Acts as administrator and financial manager



## California First Responder Network (CalFRN)

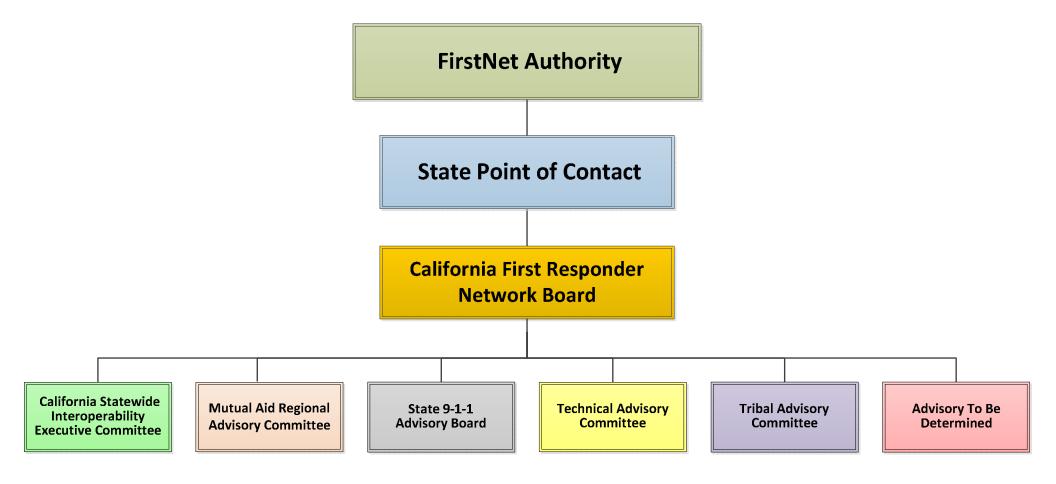
## California First Responder Network

### Board includes representatives from:

- Public Safety Communications
- California Governor's Office of Emergency Services
- Department of Technology
- California Department Finance
- California Department of Forestry and Fire Protection
- California Highway Patrol (CHP)
- Emergency Medical Services Authority
- Bay Area Regional Interoperability Communications System (BayRICS)
- Los Angeles Regional Interoperability Communications System (LA-RICS)
- California Police Chiefs Association
- California Fire Chiefs Association
- California State Sheriffs Association
- Tribal, Governor's Office Tribal Advisor

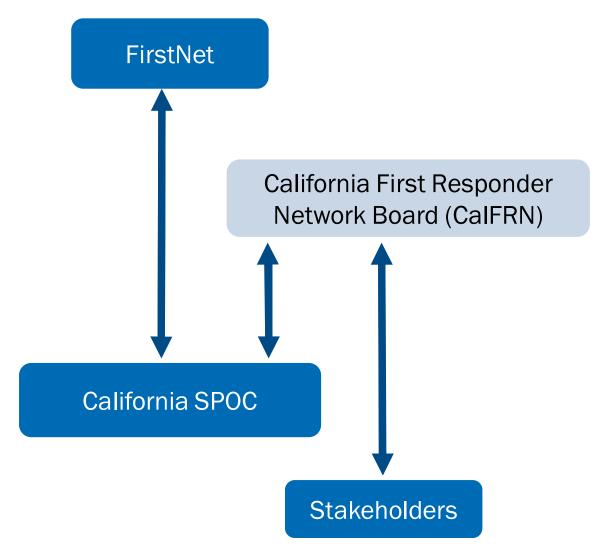


## **CalFRN Advisory Committees**

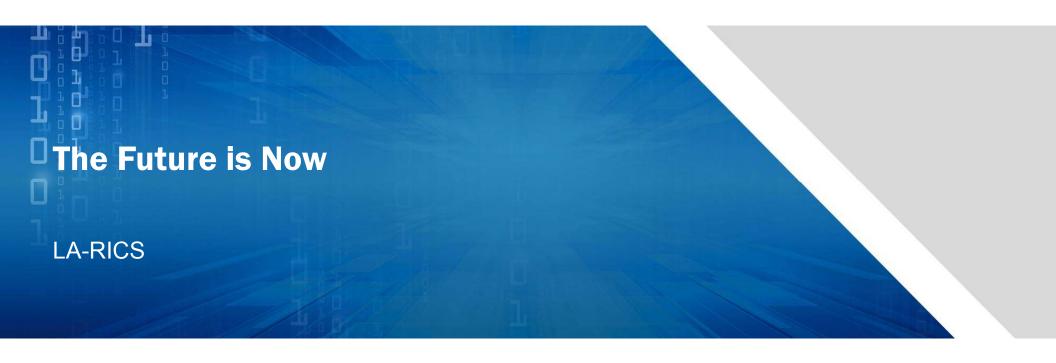




## **Communicating with FirstNet**











# Happening Now Public Safety LTE Design & Build – LA County

Los Angeles Regional Interoperable Communications System Joint Powers Authority (LA-RICS)



- There are 192 monopole sites identified for the LTE network in all of Los Angeles County
  - All sites meet criteria for CEQA exemption
  - NEPA clearance required for all sites
- 27 monopole sites will have both LMR and LTE







## LTE Deployment:

18 Month Program deployed in five Phases:

- Phase 1 System Design (Mar 2014 – Jun 2014)
- Phase 2 Site Construction
   (Jun 2014 Mar 2015)
- Phase 3 Supply LTE Equipment (Aug 2014 – Mar 2015)
- Phase 4 System Implementation (Oct 2014 – Aug 2015)
- Phase 5 System Maintenance (Aug 2015)

BTOP funds expire in August 2015





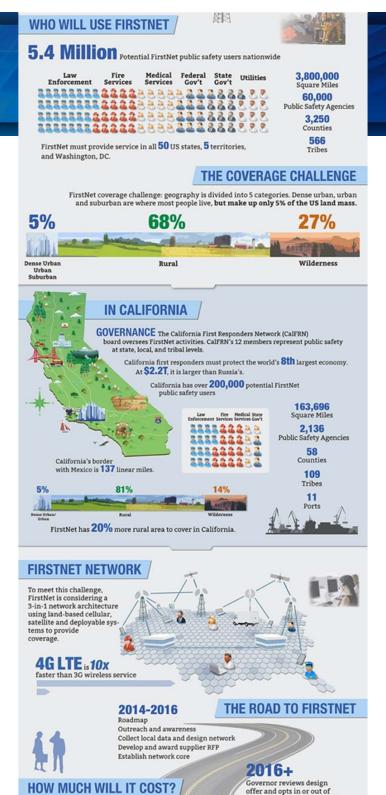




# Cal OES FirstNet Outreach and Consultation

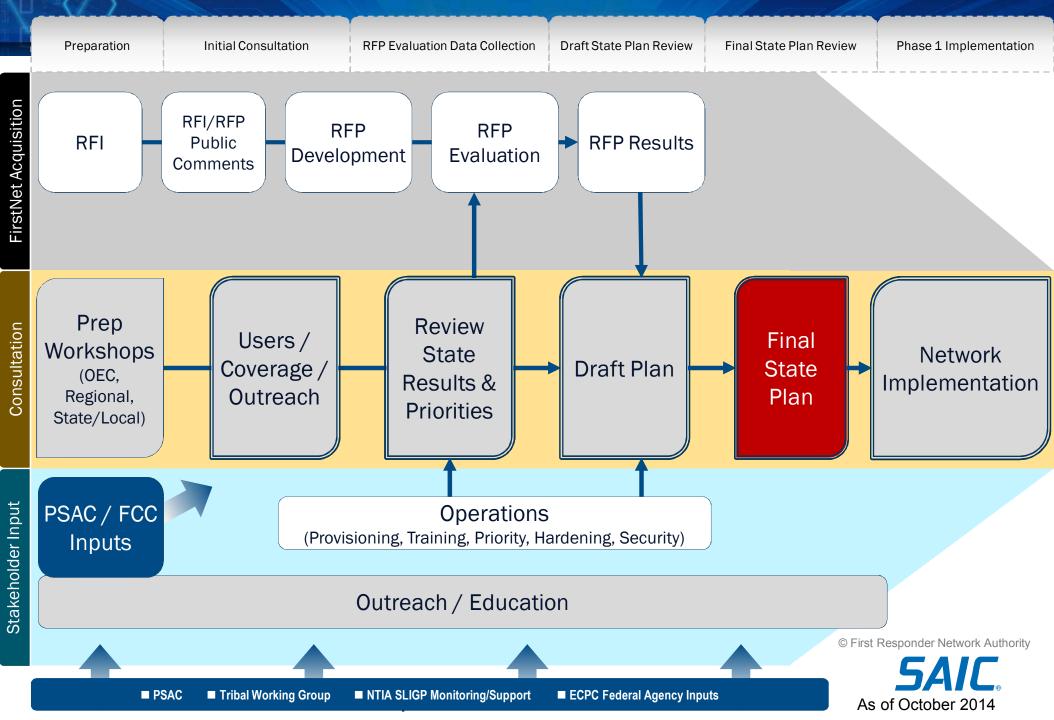
In addition to establishing CalFRN, State progress includes

- Formed Cal OES core team
- Hired public safety broadband consultant
- Developed Education and Outreach Plan
- Developed presentations, flyers, and outreach materials
- Conducting town hall meeting webcasts
- Conducting FirstNet in California Survey
- Hosted OEC coverage objectives workshops
- Responded to FirstNet RFI and Interpretations of Parts of the Act
- Developing California FirstNet Roadmap
- Submitting Consultation Checklist



FirstNet network deployment

## **Updated Consultation and State Plan Process**





## **FirstNet Timeline**

## 2014-2016

Roadmap
Outreach and awareness
Collect local data and design network
Develop and award supplier RFP
Establish network core

## THE ROAD TO FIRSTNET

2016+

offer and opts in or out of FirstNet network deployment

Integrate Next Generation 9-1-1

2022

Network substantially in operation







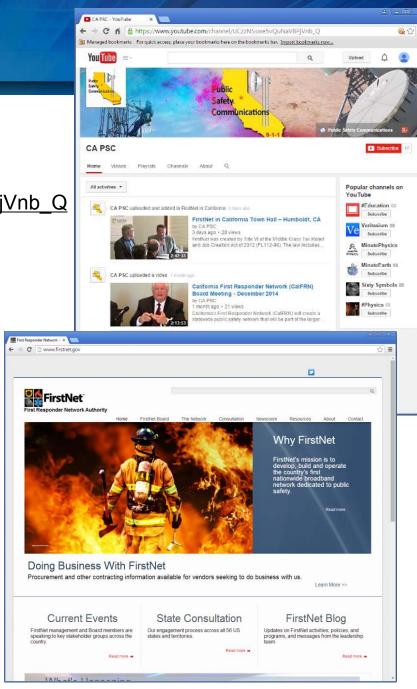
## **Get Engaged**

- Learn more about FirstNet
  - <u>www.firstnet.gov</u> the latest from the national level <a href="https://www.youtube.com/channel/UCzzNSswe5vQuNaVBPjVnb\_Q">https://www.youtube.com/channel/UCzzNSswe5vQuNaVBPjVnb\_Q</a>
  - YouTube channel for town hall videos
     www.calema.ca.gov search "CalFRN"
     www.firstnetinoregon.org articles, videos,
     weblinks, newsfeeds
- Inform your staff and peers

  Contact Cal OES for outreach materials,
  speaking schedules, and more:

CalFRN@CalOES.ca.gov 916.657.9466

 Participate in Consultation and Data Collection Process Know who represents you



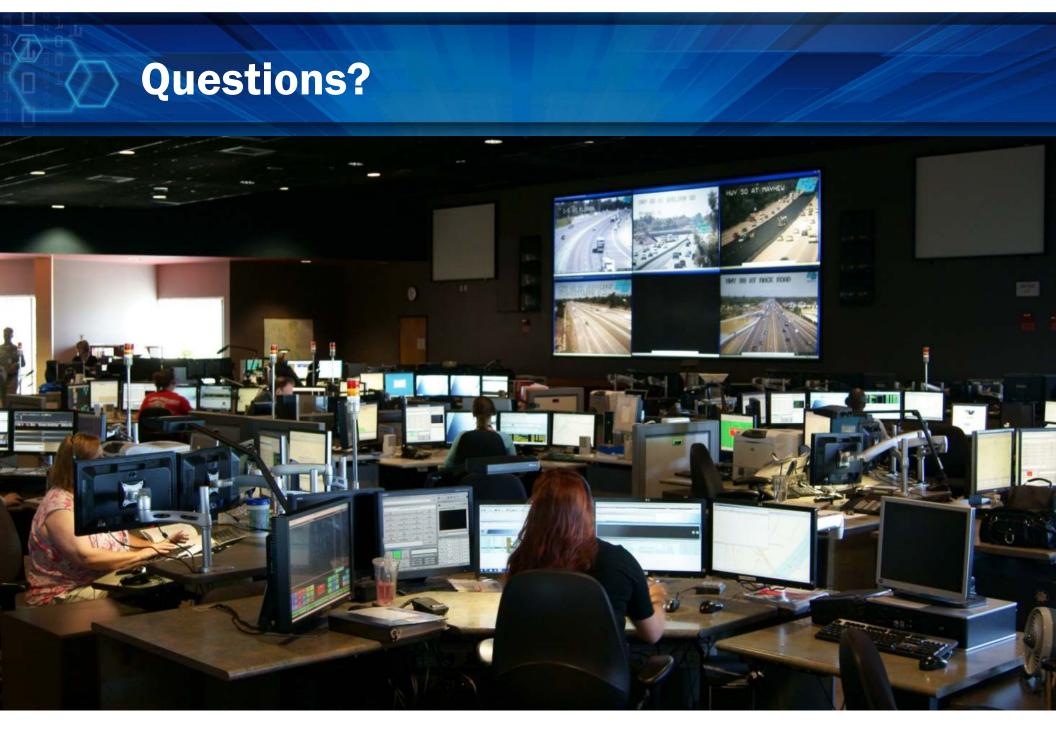


## **Set Expectations**

## Help us manage expectations

- LTE is not a replacement for LMR technology today
- LMR will continue to provide mission critical voice communications for the foreseeable future
- The LTE data network introduces new capabilities to assist the first responder
  - Provides new supplementary data and video services
  - Its true power and value will be realized once useful, interoperable applications are in the hands of users







# Thank You

Mike Boyden, PMP, PE | SAIC

**Program Director** 

mobile: 925-984-9082

mike.boyden@saic.com | saic.com





Courtesy of FirstNet